Daoyuan Lai

Southern University of Science and Technology (SUSTech)

Department of Statistics and Data Science
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EDUCATION

Southern University of Science and Technology, China	2016 -present
Major in Statistics	GPA 3.69/4.00

RESEARCH EXPERIENCE

Prof. Zhixiang Lin's Group (Biomedicine and Data Science)

Sep. 2019-

Undergraduate Research Assistant

The Chinese University of Hong Kong, Department of Statistics

Prof. Zhaojian's Li's Lab (Pattern Recognition)

Jun. 2019 -Sep. 2019

Undergraduate Research Assistant (Remote)

Michigan State University, Department of Mechanical Engineering

- Optimizing an efficient online identification methodology with a composite local model structure, conducting a convergence analysis of the algorithm.
- Identifying traffic system's parameters by implementing a decentralized sparse multitask recursive least square algorithm.

Prof. Guo-Liang Tian's Group (Computational Statistics and Optimization) Sep. 2018-Undergraduate Research Assistant

SUSTech, Department of Statistics and Data Science

• Solving the skew-t-normal distribution's MLE by applying the MM algorithm with significantly less computational cost, compared with Newton's method.

Prof. Chenglong Fu's Lab (Computer Vision)

Jan. 2017 -Feb. 2017

Undergraduate Research Assistant

SUSTech, Department of Mechanical and Energy Engineering

• Demonstrating environmental features' estimation by using the random sample consensus (RANSAC) algorithm and contributed to optimizing the protheses' recognition.

PUBLICATION

Zhang, K., Xiong, C., Zhang, W., Liu, H., Lai, D., Rong, Y., & Fu, C. (2019).
 Environmental features recognition for lower limb prostheses toward predictive walking.
 IEEE Transactions on Neural Systems and Rehabilitation Engineering, 27(3), 465-476.

TEACHING

•	Teaching Assistant: Computational Statistics (Graduate Course)	2019
•	Teaching Assistant: Bayesian Statistics (Graduate Course)	2020

AWARDS & HONORS

•	Outstanding Undergraduate Scholarship of SUSTech	2017, 2018, 2019
•	Dean's Scholarship (Shuli College, SUSTech)	2018

STANDARD TEST

• IELTS Test 7.0 (R: 8.5 L: 8.0 S: 5.5 W:5.5) Aug. 2018

COMPUTATION SKILLS

• MATLAB, R, Java, LaTeX, CAD, CAXA